

STEPANOV, I.A.

Asbestos cloth cups for sealing steam and pneumatic hammers.  
Trakt. i sel'khoz mash. 31 no. 11:44 N '61. (MIRA 14:12)

1. Glavnyy mekhanik Lopetskogo traktornogo zavoda.  
(Hammers)  
(Asbestos)

SKORCHELLETTI, V.V.; STEPANOV, I.A.; KUKSENKO, Ye.P.

Anodic behavior of alloys of the copper-zinc system in 0.1N.  
solution of potassium chloride. Zhur.prikl.khim. 31 no.12:  
1823-1831 D '58. (MIRA 12:2)  
(Copper-zinc alloys--Electric properties)  
(Potassium chloride)

STEPANOV, I.A., elektromekhanik

Instrument for regulating plug relays. Avtom., telem. i  
sviaz' 9 no.12:29 D '65.

(MIRA 19:1)

1. Kontrol'no-ispytatel'nyy punkt Velikolukskoy distantzii  
Oktyabr'skoy dorogi.

STELANOV, I. A.

"Investigation of Catchers for the Automatic Filling of Liquid Foods." Cand Tech Sci, Leningrad Technological Inst of the Food Industry, Leningrad, 1954. (RZhMekh, Mar 55)

SC: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

The flow of water-alcohol and alcohol-water-sugar solutions from orifices and nozzles. A. Stepanov. *Spravochny Prom.* 20, No. 4, 20-2(1954).--If the  $\pi$ -theorem is written in the form  $f(\pi_1, \pi_2, \pi_3) = 0$ , 3 equations can be written for the variables:  $\pi_1 = Wd\rho/\eta = \sqrt{2gHd\rho/\eta} = Re$ ,  $\pi_2 = W\eta/\sigma = \sqrt{2gH\eta/\sigma} = K$ ,  $\pi_3 = Q/Wd^3 = Q/\sqrt{2gHd^3} = \mu$ , where  $H$  the pressure head in m.,  $d$  the diam. of the orifice in m.,  $Q$  the discharge in cu.m./sec.,  $\eta$  the viscosity in kg.sec./sq.m.,  $\sigma$  the surface tension in kg./m.,  $Re$  the Reynolds number,  $K$  a const. which takes into account the influence of the surface tension, and  $\mu$  a value which is proportional to the discharge. Thus one can rewrite the  $\pi$  theorem as  $(Re, K, \mu) = 0$ , or  $\mu = \varphi_1(Re, K)$ , or, as the influence of  $K$  is negligible, as  $\mu = \varphi_2(Re)$ . Two graphs are presented where  $\log \mu$  is plotted versus  $\log Re$ , for the case of the liquid running through a plate with a rounded orifice or through a cylindrical nozzle, resp. For the various solns., which contain 20-40% EtOH and 30-60% sucrose, the equation  $\mu = mRe^n$  will fit, where  $m$  and  $n$  are const., the values of which are presented in tables; they are from case to case different, depending on whether  $Re < \text{or} > 1000$ , on whether one uses the orifice or the nozzle, and upon the ratio length/diam. of the nozzle. Werner Jacobson.

STEPANOV, I.A.

Determining the filling and emptying time of a dip-type measuring  
hopper. Spirt.prom.21 no.2:10-12 '55. (MLRA 8:10)

1. Leningradskiy likero-vodochnyy zavod.  
(Food industry--Equipment and supplies)

USSR/Chemical Technology - Chemical Products and Their Application. Fermentation Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63549

Author: Stepanov, I. A.

Institution: None

Title: Technical Progress and Innovator Undertakings

Original

Periodical: Spirt. prom-st', 1955, <sup>21</sup>No 3, 34-37

Abstract: Description of introduction of new techniques at the Leningrad liquor plant: machinery of new designs, automatic continuous production lines and innovation attainments of L. A. Bogdanova who operates 4 assembly units.

Card 1/1

STRPANOV, I.A.

New conveyer-type bottling machine for liqueur and vodka. Spirt.  
prom.21 no.3:37-40 '55.  
(MIRA 8:12)

1. Leningradskiy likerno-vodochnyy zavod  
(Bottling machinery)



*STEPANOV I A*  
STEPANOV, I.A.; AZRIYELOVICH, S.S.

Leningrad Liqueur and Vodka Plant on the fortieth anniversary  
of the October Revolution. Spirt.prom. 23 no.7:40-46 '57.

(MIRA 11:1)

(Leningrad--Liquor industry)

STEPANOV, I.A.; GALASOV, P.N.

Finnish state monopoly of alcoholic beverages. Spirt. prom. 24  
no.5:36-41 '58. (MIRA 11:9)  
(Finland--Distilling industries)

STEPANOV, I.A.

Over-all mechanization and automation of the processes of  
washing equipment, bottling, and packing the finished product.  
Spart. prom. 24 no.6:4-9 '58. (MIRA 11:10)  
(Bottling; machinery) (Automation)

AZRIYELOVI, S.S.; STEPANOV, I.A.; BRAZHNIKOV, P.G.

Employees of the Leningrad Liqueur and Vodka Plant are greeting  
the 21st Congress of the CPSU with new achievements. Spirt.prom.

25 no.1:11-12 '59.

(MIRA 12:2)

(Leningrad--Distilling industries--Equipment and supplies)

GLAZUNOV, A.I.; KAMOVNIKOV, B.P.; KRAVCHENKO, V.S.; PIVOVAROV, V.G.;  
STEPANOV, I.A.

Automatic control of alcohol in distilled liquors. Spirt.prom.  
27 no.2:28-32 '61. (MIRA 14:4)  
(Alcohol) (Automatic control)

KRAVCHENKO, V.S.; STEPANOV, I.A.; TIKHOMIROV, L.A.; KAMOVNIKOV, B.P.;  
GLAZUNOV, A.I.

Automatic maintenance of constant pressure in continuous rectifying  
columns. Spirt.prom. 27 no.3:29-33 '61. (MIRA 14:4)  
(Leningrad—Liquor industry—Equipment and supplies)  
(Distillation apparatus)

STEPANOV, I.A.; ANDREYEV, K.P.; USHAKOV, Ye.N.

Automatic distribution of containers on a conveyer moving  
toward bottle-washing machines. Spirt.prom. 28 no.2:20-24  
'62. (MIRA 15:3)

1. Leningradskiy kholodil'nyy institut (for Stepanov). 2. Lenin-  
gradskiy likero-vodochnyy zavod (for Andreyev, Ushakov).  
(Leningrad--Liquor industry--Equipment and supplies)

STEPANOV, I.A.

Efficient method of bottle washing. Spirt.prom. 29 no.2:5-9 '63.  
(MIRA 16:3)

1. Leningradskiy tekhnologicheskij institut kholodil'noy promyshlennosti.  
(Bottle washing)



GALASOV, P.N.; STEPANOV, I.A.

Continuous automatic bottling lines in the Leningrad Liqueur and  
Vodka Distillery. Spirt. prom. 29 no.6:20-23 '63. (MIRA 16:10)

1. Spetsial'noye konstruktorskoye byuro PPT Leningradskogo soveta  
narodnogo khozyaystva (for Galasov). 2. Leningradskiy tekhnologi-  
cheskiy institut kholodil'noy promyshlennosti (for Stepanov)  
(Distilling industries—Equipment and supplies)  
(Automation)

STREPTOCY, Ivan, Aleksandrovich; VASILV, Petr Nikolaevich; SHEKOL,  
Yul' V., opash. red.; KOVALENKAYA, A.I., red.

[Continuous lines for bottling and sealing liquid foods and  
beverages] Pischebnye linii razliva i ukaporki pishchevykh  
shishk. Moskva, Pishchevaia promyshlennost', 1965.  
316 p. (MIRA 18:11)

STEPANOV, I.A.

[Proportioning devices for food liquids] Doziruiushchie  
apparaty dlia pishchevykh zhidkosti. Moskva, TSentr.  
in-t nauchno-tekhn. informatsii pishchevoi promyshl.,  
1963. 46 p. (MIRA 17:5)

GALASOV, P.N.; STEPANOV, I.A.

Automatic production line for bottling in the Leningrad Liqueur and  
Vodka Factory. Spirt.prom. 29 no.5:25-29 '63. (MIRA 17:2)

1. Leningradskiy likero-vodochnyy zavod (for Galasov). 2. Leningradskiy  
tekhnologicheskii institut kholodil'noy promyshlennosti (for Stepanov).

STEPANOV, I.A., inzh.

Wave damping by single breakwaters. Trudy LIVT no.8:35-41 '60.  
(MIRA 15:2)

(Breakwaters)

SHIENTSEL', V.K., kand.tekhn.nauk, dotsent; STEPANOV, I.A., inzh.

Accuracy of laboratory wave investigations. Trudy LIT no.8:58-62  
'60. (MIRA 15:2)

(Hydraulic engineering—Research)

STEPANOV, I.A.

Balance of wave energy for a limited area of the sea. Okeanologiya  
1 no.4:638-641 '61. (MIRA 14:11)

1. Leningradskiy institut vodnogo transporta.  
(Waves)

STEPANOV, I.A.

Balance of wave energy for the protected water area. Okeanologiya  
1 no.5:851-855 '61. (MIRA 15:3)

1. Leningradskiy institut vodnogo transporta.  
(Waves) (Hydraulic engineering)



STEPANOV, I.A., inzh.

The main beam of energy. Izv.vys.ucheb.zav.; energ. 4 no.9:104-  
107 S '61. (MIRA 14:10)

1. Leningradskiy institut inzhenerov vodnogo transporta.  
Predstavlena kafedroy protov i gidrotekhnicheskikh sooruzheniy.  
(Waves) (Turbulence)

STEPANOV, I., inzh.

Calculating wave formations in harbors. Rech. transp. 20  
no. 2:37-38 F '61. (MIRA 14:2)

(Waves)

STEPANOV, I.

Theoretical and actual wave disturbance behind a single breakwater.  
Mor.flot 21 no.5:32-34 My '61. (MIRA 14'5)

1. Starshiy inzh.Leningradskogo instituta vodnogo transporta.  
(Waves)

I. 0104/246 EAT(1) 31  
ACC NR: AR6021878 (N) SOURCE CODE: UR/0124/66/000/003/B063/B063  
AUTHOR: Stepanov, I. A.  
TITLE: Approximate simulation of waves in a port 39  
SOURCE: Ref. zh. Mekhanika, Abs. 3B432 B  
REF SOURCE: Tr. Leningr. in-ta vodn. transp., vyp. 77, 1964, 44-54  
TOPIC TAGS: simulation, modeling, wave, wave modeling, wave propagation  
ABSTRACT: Considerations for modeling of waves on the surface of a fluid based on energy characteristics of a high sea are given. The problems of modeling a rough bottom and scale distortions are discussed as well as problems related to the effect of fluid viscosity on the propagation of waves on a model. A. S. Ofitserov. [Translation of abstract.] [AM]  
SUB CODE: 08/

Card 1/1 hs

STEPANOV, I.D. (Angarsk)

Young men's mathematics school at Irkutsk. Mat. v shkole no.3:85  
My-Je '63. (MIRA 16:7)

(Irkutsk--Mathematics--Study and teaching)

AL'TER, L.B., doktor ekon. nauk; BLYUMIN, I.G., doktor ekon. nauk [deceased]; KARATAYEV, N.K., prof.; REUEL', A.L., doktor ekon. nauk; STEPANOV, I.G., doktor ekon. nauk; SHTEYN, V.M., doktor ekon. nauk; POLYANSKIY, F.Ya., doktorist. nauk; BOBKOV, K.I., kand. ekon. nauk; VASILEVSKIY, Ye.G., kand. ekon. nauk; MOROZOV, F.M., kand. ekon. nauk; PONOMAREV, Ye.I., kand. ekon. nauk; RYNDINA, M.N., kand. ekon. nauk; FIRSOVA, S.M., kand. ekon. nauk; TSAGA, V.F., kand. ekon. nauk; ZHUK, I., red.; VOSKRESENSKAYA, T., red.; NEZNANOV, V., red.; ULANOVA, L., tekhn. red.

[History of economic theories] Istoriia ekonomicheskikh uchenii. Moskva, Sotsekgiz, 1963. 549 p. (MIRA 17:2)

1. Akademiya nauk SSSR. Institut ekonomiki.

COUNTRY : USSR  
 CATEGORY :  
 ADJ. JOUR. : RZhSoc., No. 1959, No. 10006  
 AUTHOR : Stepanov, I. I.  
 INST. : Voronezh Medical Institute  
 TITLE : Variability of Virulent and Immunogenic Properties of  
 Secondary Cultures of Flexner Dysentery During the  
 Process of Reversion  
 ORIG. PUB. : Tr. Voronezhsk. med. in-ta, 1957, 28, 117-123  
 ABSTRACT : During the course of repeated passages of secondary  
 regenerated cultures of Flexner dysentery bacteria  
 (obtained as a result of the prolonged maintenance of  
 phagolysates at 37°) in MPB containing 0.075% agar  
 a regular increase in virulence and immunogenicity  
 was noted. In 1 culture a complete restoration of the  
 original virulence was observed. A secondary culture  
 was obtained with immunogenic properties exceeding  
 the immunogenicity of the original culture with reduced  
 virulence. -- V. G. Petrovskaya  
 Cards: 1/1

4

[illegible]



STEPANOV, I. I.

T. F. Dankova, L. G. Evdskimova, I. I. Stepanov, and N. A. Preobrazhenskii, Investigations of syntheses in the series of analogs of colchicine alkaloid. p. 1724

The synthesis is described of new derivatives of  $\beta$ -phenyl-ethyl-amine which have in their structure a number of analogies with the proposed structure of colchicine and other known preparations with a growth-action.

The Moscow Lomonosov Inst. of Exact Chemical Technology.  
November 10, 1946

SO: Journal of General Chemistry (USSR) 28, (80) No. 9 (1948)

STEPANOV, I. I.

USSR/Chemistry - Synthesis  
Chemistry - Alkaloids

Sep 46

"Synthetic Research in a Series of Analogues of a Colchicine Alkaloid," T. F. Dankova, L. G. Yevdokimova, I. I. Stepanov, N. A. Preobrazhenskiy, Moscow Inst Fine Chem Tech imeni M. V. Lomonosov, 8, pp

"Zhur Obshch Khimii" Vol XVIII, No 9

Describes synthesis of new derivatives of  $\beta$ -phenylethylamine. Structurally, they have many analogies with the proposed structure of colchicine and other well-known preparations with growth action. Synthesizes  $\beta$ -anisil- $\gamma$ -(4-methoxyphenyl)-propylacetamine and  $\beta$ -(n-oxyphenyl)- $\gamma$ -(4-methoxyphenyl)-propylamine. Also prepares methyl ester of oxymethylenecamphor and methyl and ethyl esters of camphocarboxylic acid. Submitted 10 Nov 46.

PA 30/49 TL3

3663. COMPOSITION OF GAS FROM INDUSTRIAL LOW TEMPERATURE CRACKING OF SHALE-MONKSITE. Kryll, A.T. and Gurevny, I.I. (Izv. Akad. Nauk. Estonsk. (Bull. Acad. Sci. Eston. S.S.R.), 1956, (3), 160-174; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1956, (8), 25259). The composition of gas from the low temperature carbonization of shale at 450-460°C in tunnel kilns and relative returns was investigated. The gas was rectified and gas analyzed. The concentrations in % by volume of gas from the shale from kilns for returns from, actively used, carbon at kiln plus hydrogen sulphide 23.6 and 10.6, carbon monoxide 1.5 and 0.4, hydrogen plus oxygen 26.4 and 15.2 (air leakage), hydrocarbon as  $C_2H_4$  and  $C_2H_6$ . The yield of gas from a ton of shale was 35 and 10 cu m. The yield of hydrocarbon gases in % of shale by weight were, in saturated gases: methane 0.25, ethane 0.13, propane 0.38, butane 0.15; and in unsaturated gases: ethylene 0.16, propylene 0.31, and butylene 0.17. As far as its hydrocarbon portion is concerned gas from the low temperature carbonization of shale is similar to gas from the cracking of petroleum, and in the degree of unsaturation it comes somewhere between the products of liquid and low temperature cracking. It is suggested that the unsaturated hydrocarbons could be subjected for further chemical treatment and that liquefied propane plus butane should be produced for domestic and industrial purposes.

STEPANOV, I. I.

USSR Chemical Technology. Chemical Products and Their I-13  
Application--Treatment of solid mineral fuels

Abs Jour: Ref Zhur-Khimiya, No 3, 1968, 9226

Author : Stepanov, I. I.  
Inst : Academy of Sciences Estonian SSR  
Title : High-Temperature Shale Gas

Orig Pub: Izv. AN EstSSR, 1965, Vol 4, No 1, 57-64

Abstract: The composition and heat value of gas obtained by the high-temperature gasification of Estonian shales in an industrial horizontal [sic] Didier converter at 750-800° has been investigated. It is shown that the high-temperature decomposition of the shale proceeds with intensive gas evolution in two stages. In the first stage, large gas yields (216 m<sup>3</sup>/ton) are observed, the gas being rich in unsaturated hydrocarbons (C<sub>2</sub>, C<sub>3</sub>, and C<sub>4</sub>); in the second stage the coking of the shale is completed and the yield of gas is low (34 m<sup>3</sup>/ton), the gas containing almost

Card 1/2

Abstract: no unsaturated hydrocarbons and a higher yield of CO (31.5-70.3 vol % against 7.8-14.5 vol % during the first stage). The concentration of H<sub>2</sub> at the end of the first stage is 9.8%. The concentration of CH<sub>4</sub> changes similarly from 14-18% in the first stage to 10-25% in the second stage; 60-70% of the C<sub>2</sub> fraction consist of ethylene. The average heat value of the gas in the first stage is 6200 kcal/m<sup>3</sup> and in the second stage, 2930 kcal/m<sup>3</sup>, the overall heat value is 5800 kcal/m<sup>3</sup>. A comparison of the gas yields obtained in a laboratory reactor (330°), a rotating reactor (450°), a tunnel furnace (480°), and with the production of consumer (750°) and high-temperature (800°) gas has shown the advantages of the latter two methods (yields of 400 and 250 m<sup>3</sup>/ton compared to 20-25 m<sup>3</sup>/ton at 450° in the retort and 480° in the furnace).

Card 2/2

STEPANOV. I.I.

Using low-temperature rectification apparatus for the  
analysis of producer gas. Gaz. prom. no.3:29-30 Mr '57.  
(MIRA 12:3)

(Gases--Analysis)

STEPANOV, I

1957 / General and Specialized Zoology. Insects. Harmful  
Insects and Acarids. Chemical Methods in the Control of  
Harmful Insects and Acarids.

Abstr Jour : Ref Zhur - Biol., No 18, 1958, No. 82926

Author : I. Stepanov, I.

Inst : Not given

Title : Concerning the Safeguarding of Plants and Wood Pulp  
Obtained in the Shale Industry

Orig Pub : Techn. ja tootmine, 1957, No 5, 11-12 (Estonian)

Abstract : There is a description of toxic chemicals (oil for  
impregnation of crossties, Carbolineum, shale oil in  
the capacity of a herbicide, preparation 125, colloidal  
sulphur, etc.), which may be prepared from Estonian shale.

Card 1/1

12

STEPANOV, I.I.

Organic sulfur compounds in domestic gas in Tallinn. Gas. pren. 4  
no.2:33-35 F '59. (MIRA 12:3)  
(Tallinn--Gases--Analysis) (Sulfur compounds)

PETUKHOV, Ye.S.; BEREBIANIKOV, N.D.; STEFANOV, I.I.; SHELOUMOV, V.V.

Studies in the preparation of oil shale gas for the synthesis of ammonia. Khim. i tekhn. gor. slan. i prod. ikh perer no.13: 142-151 '64. (MIRA 18:9)



ZEMEKOV, M.V.; IGNAT'YEVA, S.A.; MORCZOVA, V.P.; STEPANOV, I.I.; ZHURAVLEVA, N.V.

Yeast-induced production of antibodies, resistance and plasmoblastic  
reaction in animals. Zhur.mikrobiol., epid. i immun. 42 no.3:130-  
133 Mr '61. (MIRA 18:6)

1. Voronezhskiy medits'nskiy institut.

STEPANOV I I

AID P - 5372

**Subject** : USSR/Engineering  
**Card 1/1** Pub. 103 - 2/28  
**Author** : Stepanov, I. I.  
**Title** : Special shape grinding machine  
**Periodical** : Stan. i instr., 9, 5-7, S 1956  
**Abstract** : The KhSh-116 model semi-automatic grinding machine with hydraulic drive and with polishing wheel 700 to 1,100mm in diameter for machining complicated surfaces of aerodynamic profile, such as blades for gas turbines and compressors, is described and illustrated. Four drawings and 2 photos.  
**Institution** : Khar'kov Machine-tool Plant  
**Submitted** : No date

STEPANOV, I.I.

External appearance of machine tools. Stan.1 instr. 27 no.10:23-25  
0 '56. (MLRA 9:12)

(Machine tools--Design)

STEPANOV, IGOR' MIKHAYLOVICH

N/5  
783.301  
.58

Rabota Rayonnogo Soveta V Oblasti Planirovaniya I Byudzheta (Work of Soviet Districts in Field of Planning and Budget) Moskva, Gosyurizdat, 1956.

47 p. Tables.

Bibliographical footnotes.

At head of title: Akademiya Nauk SSSR. Institut Prava.

STEPANOV, Ivan Mladovskiy

DECEASED

1964

c. '62

Surhine

STEPANOV, I. N.

movable supports for mine workings. Stepanov, I.N. (Moscow: Ugletekhizdat, 1951, 112 pp.; abstr. in Ural (Coal), Jan. 1951, 47)

Examples are given of typical designs. The theory on which they are based is explained. The handling of movable supports in mining thick steeply dipping seams in Kuzbass is described.

immediate source clipping

STEPANOV, I.N.

Experience in managing the combined means of communications. Vest. aviatsii  
14 no.4:25-27 Ap '54. (MLRA 7:6)

1. Nachal'nik Vladimirovskoy oblasti direktsii radiotranslyatsionnoy seti.  
(Telecommunication)

OSIPOV, V.G.; GOLANIN, V.S.; KIZEVETTER, I.V.; STEPANOV, I.H.,  
red.

[Tuna fish] Tuntsy. Vladivostok, Tikhookeanskii in-t  
rybnogo khoz. i okeanografii, 1963. 68 p. (MIRA 17:4)



L 22903-65 EPF(c)/EPR/EWG(s)-2/EWP(j)/EWT(m)/T/EWP(v) Pc-4/Pr-4/Ps-4/  
 Pw-4 RM/WW/ /  
 ACCESSION NR: AP5001776 S/0097/64/000/009/0420/0421

AUTHOR: Stepanov, I. N. (Engineer, Director)

TITLE: Polymer films replacing lubrication

SOURCE: Beton i zhelezobeton, no. 9, 1964, 420-421

TOPIC TAGS: polymer, polymer film, construction material, concrete, phenolformaldehyde

ABSTRACT: About 15% of the expense involved in producing concrete and ferroconcrete objects is caused by form-setting and removal and handling of forms. The author cites conventional methods of form lubrication as being unwieldy and inefficient. Pre-greased forms must usually receive supplementary applications of grease on the job site. The Tsentral'naya nauchno-issledovatel'skaya laboratoriya Glavtsentrostroya Ministerstva stroitel'stva RSFSR (Central Scientific Research Laboratory of Glavtsentrostroy at the Ministry of Construction, RSFSR) developed a new polymer substance which, when applied to a form surface, eliminates the disadvantages of grease lubrication. The polymer is based upon phenolformaldehyde with filler substances. The polymer takes the form of a thin film applied to the form surface. The ingredients used in preparing the polymer are: MFF-1 (BTU M-800-58)

Card 1/2

L 22903-65

ACCESSION NR: AP5001776

3  
glue, RA-6 (TU-4082-55) lacquer, type "A" (GOST 901-56) bakelite lacquer, acetone (GOST 2603-51), and ethanol (GOST 8314-57). Two mixtures are prepared: mixture number 1 consisted of (based on 10 liters total volume) 1.3 liters MPF-1 glue, 5.0 liters ethanol, 1.3 liters RA-6 lacquer, and 2.4 liters acetone; the second mixture: 1.5 liters RA-6 lacquer, 3.9 liters ethanol, 0.7 liters type "A" bakelite lacquer, and 3.9 liters acetone. Twenty liters of the final mixture result in the aggregate proportions of mixtures 1 and 2; this amount is sufficient for about 100 m<sup>2</sup> of smooth metal surface. Polymerization occurs at +170C in a metallic heat chamber. The total preparation-polymerization process takes 105 minutes, not including cooling time. The author describes in detail the sequences of mixture application, heating, and other procedures necessary to produce the film. Field tests of the film-covered forms were conducted by the KPP Combine Mosoblstroy No. 6. Sixty uses of the forms resulted in no damage to the film surface. Preliminary estimates indicate a cost of about 0.5 kopeks to produce the film.

ASSOCIATION: Tsentrostroytsnail

SUBMITTED: 00

ENCL: 00

SUB CODE: MT

NO REF SOV: 000

OTHER: 000

Card 2/2

STEPANOV, I.N.

New glaciological data on the Kok-Su Valley (western Tien Shan).  
Nauch.dokl.vys.shk-ly; geol.-geog.nauki no.1:140-142 '59.  
(MIRA 12:6)

1. Moskovskiy universitet, biologo-pochvennyy fakul'tet, kafedra  
fiziki i melioratsii pochv.

(Kok-Su Valley (Tien Shan)—Drift)

3(5)

SOV/20-125 1-41/67

AUTHOR:

Stepanov, I. N.

TITLE:

Snow Cover as One of the Factors Contributing to the Formation of a Loess-like Soil (Snezhnyy pokrov kak odin iz faktorov obrazovaniya lessovidnykh melkozemistyykh tolshch)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1, pp 153-154 (USSR)

ABSTRACT:

In the region of the Tyan'-Shan' Highlands the weathering products of the rocks are deposited as a fine dust. The author has observed the important role the snow fields of Western Tyan'-Shan' play in this process. The aeolian products and dust of erosion brought in by prevailing winds from the foothills are caught on the snow fields. The deposition of these products in negative relief forms and in the wind shadows of slopes is thus favored. The role of rain water in the formation of relief in the high mountains is reduced to minimum because in this area the precipitation the whole year long is snow and hail. The giant snow fields have a large specific surface area and porosity. Because of this the lowermost air layer is cooled and the air becomes dense and stagnant. This favors the precipitation of

Card 1/3

SOV/20-125-1-41/67

Snow Cover as One of the Factors Contributing to the Formation of a Loess-like Soil

dust particles on the snow surface. The data obtained on solid particles acquired by evaporation of the water are shown in table 1. From this it can be seen that the amount of dust particles ranges from 10-25 metric tons/km<sup>2</sup> of snow surface to 1-2.5 kg/m<sup>3</sup> of snow. Moreover one of the muddiest rivers of the Tyan'-Shan' area, the Naryn River where it leaves the Fergana Valley, yielded 1.09 kg solid particles per m<sup>3</sup> (Ref 1). Under the microscope the mineral content of the dust shows a close relationship with the surrounding rocks. The main source of the aeolian dust, then, is the bare rocks, the moraines etc of the alpine zone. The dust is produced by physical and biological erosion. However, the snowfields do not lack in aeolian dust from the foothill-plains (Ref 2). Although the amount of dust of the latter sort is not great, it has important significance, because it contains carbonate particles. The mechanical constitution of the dust was determined by the method of N. A. Kachinskij. The movement of dust during different seasons is described. In spring and summer the dust accumulates on the edge

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Snow Cover as One of the Factors Contributing to the Formation of a Loess-like Soil

of the melting snow fields (2800 m elevation) These crusts weigh  $350 \text{ g/m}^2$ . They contribute to the soil-building process. There are 1 table and 2 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova  
(Moscow State University imeni M. V. Lomonosov)

PRESENTED: November 18, 1958, by N. M. Strakhov, Academician

SUBMITTED: November 12, 1958

Card 3/3

STEPANOV, I.N.

Tien Shan snowflakes. Priroda 50 no.1:109-110 Ja '61. (MIRA 14:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.  
(Tien Shan—Snow)

KISIN, I.M.; STEPANOV, I.N.

Amount of solid mineral particles in glaciers of the Caucasus. Dokl.  
AN SSSR 137 no.5:1195-1197 Ap '61. (MIRA 14:4)

1. Upravleniye gidrometgluzhby AzerSSR. Predstavleno akademikom  
N.M.Strakhovym.

(Caucasus—Glaciers)



STEPANOV, I.N.

Snow cover and the formation of alpine soils. Pochvovedenie no.3:44-  
52 Mr '62. (MIRA 15:7)

1. Gosudarstvennyy inzhenerno-proyektnyy institut po vedomu  
khozyaystvu Azerbaydzhanskoy SSR.  
(Soil formation) (Snow)

STEPANOV, I.N.; AGAYEV, Sh.M.

System of hydrochemical zoning of the snow cover in Azerbaijan.  
Za tekhn. prog. 3 no.7:38-41 J1 '63. (MIRA 16:12)

1. Azerbaydzhanskiy gosudarstvennyy institut po proyektirovaniyu  
vodokhozyaystvennogo stroitel'stva (for Stepanov). 2. Upravleniye  
gidrometallurgicheskoy sluzhby Azerbaydzhanskoy SSR (for Agayev).

ALIYEV, G.A.; STEPANOV, I.N.

Some characteristics and similarities of brown forest soils in the  
central Karabakh Steppe. Dokl. AN ~~Azerb.~~ SSR 19 no.4:49-53 '63.  
(MIRA 16:12)

1. Institut pochvovedeniya i agrokhimii AN ~~Azerbaydzhanskoy~~ SSR.

STEPANOV, I.N. (Tashkent)

Colored snowbanks. Priroda 52 no.6:120-121 '63.  
(Snow--Microbiology)

(MIRA 16:6)

AGAYEV, Sh.M.; STEPANOV, I.N.

Chemical composition of atmospheric precipitation in Azerbaijan. Dckl.  
AN SSSR 154 no.6:1359-1360 F '64. (MIRA 17:2)

i. Upravleniye gidrometeorologicheskoy sluzhby AzerbSSR.

STEPANOV, I.N.

Weathering processes in ice-type lithogenesis. Lit. 1 pol. iskop.  
no.5:109-110 S-O '64. (MIRA 17:11)

1. Nauchno-issledovatel'skiy institut lesnogo khozyaystva, Tashkent.

KREMYTSER, Boris Aleksandrovich; STEPANOV, Ivan Prokof'yevich; PETROVSKAYA,  
Ye.K., red.; KORNEYEVA, M.G., tekhn.red.

[Shotgun firing pattern] Drobovoi vystrel. Moskva, Gos.izd-vo  
"Fizkul'tura i sport," 1959. 71 p. (MIRA 12:12)  
(Shotguns)

SCHASTNYI, N.G., inzh.-polkovnik; KISELEV, A.M., podpolkovnik  
tekhn. sluzhby; SOLDATOV, A.S., inzh.-polkovnik;  
KOLENSKIY, L.Ya., inzh.-polkovnik; STEPANOV, I.P.,  
podpolkovnik; SMIRNOV, V.I., inzh.-kapitan 2 ranga;  
MOROZOV, B.N., red.

[Invention and innovation in the Armed Forces of the  
U.S.S.R.] Izobretatel'stvo i ratsionalizatsiya v vooru-  
zhennykh silakh SSSR. Moskva, Voenizdat, 1964. 93 p.  
(MIRA 17.12)



KARPUKHIN, Georgiy Ivanovich; STEPANOV, I.M., Eds.

[Bacteriological examination and disinfection of the air]  
Bakteriologicheskoe issledovanie i obezzarazhivanie voz-  
dukha. Moskva, Medgiz, 1962. 255 p. (MIRA 18:5)

STEPANOV, I.R.

[Disinfection, disinsectization, deratization] Dezin-  
fektsiia, dezinseksiia, deratizatsiia. 2. izd. Mo-  
skva, TSentr. in-t usovershenstvovaniia vrachei, 1963.  
180 p. (MIRA 17:12)

STEPANOV, I.S.

Ways to improve the quality of footwear. Kozh.-obuv.prom. 2  
no.1:23-24 Ja '60. (MIRA 13:5)  
(Shoe manufacture)

SKOROV, V.A.; STEPANOV, I.S.; SHAKHNAZAROV, A.K., inzhener-metallurg, pensioner; PETROV, V.I., Geroy Sotsialisticheskogo Truda; BARYSHNIKOV, I.F., starshiy inzhener; BUGAREV, L.A.; LAKERNIK, M.M., kand.tekhn. nauk; SHEYN, Ya.P.; MOLCHANOV, A.A.

The greatest objective of our life. TSvet.met. 34 no.10:1-10  
0 '61. (MIRA 14:10)

1. Glavnyy inzhener Skopinskogo zavoda "TSvetmet" (for Skorov).
  2. Zamestitel' predsedatelya Mezhdunarodnoy komissii po redkim metallam pri Gosudarstvennom komitete Soveta Ministrov SSSR po koordinatsii nauchno-issledovatel'skikh rabot (for Stepanov).
  3. Rukovodite'' brigady kommunisticheskogo truda elektroliznogo tsekha Ural'skogo alyuminiyevogo zavoda (for Petrov).
  4. Otdel tsvetnoy metallurgii Gosplana SSSR (for Baryshnikov.).
  5. Nachal'nik podotdela otdela ekonomiki i razvitiya tsvetnoy metallurgii Gosekonomsoвета SSSR (for Bugarev).
  6. Zamestitel' direktora po nauchnoy chasti Gosudarstvennogo nauchno-issledovatel'skogo instituta tsvetnykh metallov (for Lakernik).
  7. Starshiy ekspert upravleniya Gosudarstvennogo komiteta Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (for Sheyn).
  8. Glavnyy spetsialist otdela tsvetnoy metallurgii Gosplana SSSR (for Molchanov).
- (Communism)

STEPANOV, I.S.

"Quantitative Characteristics of the Degree of Uniformity of Mineralization  $X_{\frac{a}{b}}$ ,"  
Dok. AN, 30, No. 6, 1941.

972 111111, 2 11  
ZELIKMAN, A.N.; SAMSONOV, G.V.; KREYN, O.Ye.; STEPANOV, I.S., inzhener, retsenzent; TANANAYEV, I.V., retsenzent; ~~POGODIN, S.A.~~, professor, doktor, sasluzhenny deyatel' nauki i tekhniki, retsenzent; RODE, Ye.Ye., professor, doktor, retsenzent; ABRIKOSOV, N.Kh, doktor khimicheskikh nauk, retsenzent; SHAMRAY, F.I., doktor khimicheskikh nauk, retsenzent; MOROZOV, I.S., kandidat khimicheskikh nauk, retsenzent; BOOM, Ye.A., kandidat khimicheskikh nauk, retsenzent; NIKOLAYEV, N.S., kandidat khimicheskikh nauk, retsenzent; ZVORYKIN, A.Ya, kandidat khimicheskikh nauk, retsenzent; BASHILOVA, N.I., kandidat khimicheskikh nauk, retsenzent; VYSOTSKAYA, V.N., redaktor; KAMAYEVA, O.M., redaktor; ATTOPOVICH, M.K., tekhnicheskij redaktor

[Metallurgy of rare metals] Metallurgiya redkikh metallov. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po cherno i tsvetnoi metallurgii. 1954. 414 p. (MLRA 7:9)

1. Chlen-korrespondent Akademii nauk SSSR (for Tananayev)  
(Metals, Rare--Metallurgy)

BEUS, Aleksey Aleksandrovich; STEPANOV, I.S., redaktor; SEMKOVA, P.V.,  
redaktor; KRYNOCHKINA, E.V., tekhnicheskii redaktor.

[Beryllium; appraisal of deposits in prospecting] Berillii; otsenka  
resorovozhdenii pri poiskakh i razvedkakh. Moskva, Gos.nauchno-tekhn.  
izd-vo lit-ry po geologii i okhrane neдр, 1956. 147 p. (MLRA 9:5)  
(Beryllium)

STEPANOV, I.S., brigadir; ZAKHODER, M.A., inzh.

Equipment for winding hose cable on the SBK-1 and T-128  
tower cranes. Rats. 1 izobr. predl. v stroi. no.2:48-52 '57.  
(MIRA 11:1)

1.Tresta Mosstroymekhanizatsiya No.1 Glavmosstroya.  
(Cranes, derricks, etc.)



STEPANOV, I.S.

"Rare metals and their use in industry" by K.I.Lukashev. Reviewed  
by I.S.Stepanov. TSvet.met. 30 no.8:83-84 Ag '57. (MIRA 10:10)  
(Nonferrous metals) (Earths, Rare)  
(Lukashev, K.I.)

AUTHOR: ~~Stepanov, I.S.~~

SGV/136-58-9-21/21

TITLE: New Data on the Prices in the USA of Some Compounds of Rare-earth Group Elements (Novyye dannyye o tsenakh v SSHA na nekotoryye soyedineniya elementov iz gruppy redkikh zemel')

PERIODICAL: Tsvetnyye Metally, 1958, Nr 9, pp 89 - 93 (USSR)

ABSTRACT: Based on the information sheets of the Lindsey Chemical Company (USA) of April and December, 1957, the author tabulates the USA prices of a number of rare-earth compounds and discusses their possible significance as a pointer to eventual costs of production in the USSR. There is 1 table.

1. Rare earth compounds--USA 2. Rare earth compounds--Costs

Card 1/1

USCIB -DC-55084

STEPANOV, I.S.; PETROV, G.I., nauchnyy red.; NEKRASOVA, N.B., red.  
izd-va; IVANOVA, A.G., tekhn.red.

[Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia;  
spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-  
tekhn.izd-vo lit-ry po geologii i okhrane neдр. No.45. [Zirconium  
and hafnium] TSirkonii i gafnii. Nauchn.red. G.I.Petrov. 1959.  
34 p. (MIRA 13:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mine-  
ral'nogo syr'ya.  
(Zirconium) (Hafnium)

BEUS, A.A.; STEPANOV, I.S., nauchnyy red.; NEKRASOVA, N.B., red.izd-vs;  
IVANOVA, A.G., tekhn.red.

[Trebovaniia promyshlernosti k kachestvu mineral'nogo syr'ia;  
spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-  
tekhn.izd-vo lit-ry po geologii i okhrane neдр. No.36. [Beryllium].  
Berillii. Nauchn.red. I.S.Stepanov. 1959. 35 p.

(MIRA 13:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mine-  
ral'nogo syr'ya.

(Beryllium)

TERENT'YEVA, K.F.; GINZBURG, A.I., glavnyy red.; MAIYSHEV, I.I., red.;  
RODIONOV, G.G., red.; STEPANOV, I.S., red.; PROKHACHEV, I.A., red.;  
FACUTOV, V.P., red.; PRISHCHENOV, N.A., red.; CHERNO SVITOV, Yu.L.,  
red.; SHMANENKOV, I.V., red.; SICHENBINA, V.V., red.; EYGELES, M.A.,  
red.; ROZHKOVA, L.G., red. izd-va; GUROVA, O.A., tekhn. red.

[Rare elements in bauxites] Redkie elementy v boksitakh. Moskva,  
Gos. nauchn.-tekhn. izd-vo lit-ry po geol. i okhr. nedr, 1959. 47 p.  
(Geologiya mestorozhdenii redkikh elementov, no. 6). (Mlka 13:12)  
(Metals, Rare and minor) (Bauxite)

ZIV, Yo.F.; VAYSINBERG, A.I.; STEPANOV, I.S., nauchnyy red.; YERSHOV, A.D., glavnyy red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; KRUSYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; CHERNOVITOV, Yu.L., red.; SHIMANKOV, I.V., red.; NEKRASOVA, N.B., red.izd-va; IVANOVA, A.G., tekhn.red.

[Industry's requirements as to the quality of mineral raw material; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov, Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane neдр. No.49. [Niobium and tantalum] Niobii i tantal. Izd.2., perer. 1959. 49 p. (MIRA 12:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. (Niobium) (Tantalum)

STEPANOV, I.S.; CHERNOSVITOV, Yu.L., nauchnyy red.; YERSHOV, A.D., glavnyy red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; ZURAREV, N.M., red.; KREYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; SHMANENKOV, I.V., red.; STOLIYAROV, A.G., red.; IVANOVA, A.G., tekhn.red.

[Industrial requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniya promyshlennosti k kachestvu mineral'nogo syr'ya; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.46. [Rubidium and cesium] Rubidii i tsezii. Nauchn.red. IU.L. Chernosvitov. 1960. 33 p. (MIRA 14:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.  
(Rubidium) (Cesium)

SHCHERBINA, V.V.; GINZBURG, A.I., red. vypuska; MALYSHEV, I.I., red.;  
POLYAKOV, P.A., red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.;  
TROKHACHEV, P.A., red.; PACUTOV, V.P., red.; KHRUSHCHOV, N.A.,  
red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.  
EYGELES, M.A., red.; ROZHKOVA, L.G., red. izd-va; IYERUSALIMSKAYA,  
Ye.S., tekhn. red.

[Geology of rare metal deposits] Geologiya mestorozhdenii  
redkikh elementov. No. 8 [Geochemical characteristics of scandium  
and types of its deposits.] Osobennosti geokhimii skandii i  
tipy ego mestorozhdenii. Moskva, Gos.nauch.-tekhn.izd-vo lit-ry  
po geol. i okhr. nedr, 1960, 56p. (Geologiya mestorozhdenii  
redkikh elementov, no. 8). (MIRA 13:11)  
(Scandium)



BUTKEVICH, T.V.; YERSHOV, A.D., glav. red.; CHERNOSVITOV, Yu.L.,  
zamestitel' glav. red.; SEMANENKOV, I.V., zamestitel' glav.  
red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; ZUBAREV, N.N.,  
red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; TROYANOV,  
A.T., red.; KHRUSHCHEV, N.A., red.; STEPANOV, I.S., nauchnyy  
red.; ROZHKOVA, L.G., red. izd-va; IYERUSALIMSKAYA, Ye.S.,  
tekhn. red.

[Industry's requirements as to the quality of mineral raw  
materials; handbook for geologists] Trebovaniia promyshlen-  
nosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geolo-  
gov. Izd. 2., perer. Moskva, Gos. nauchno-tekhn. izd-vo lit- ry  
po geol. i okhrane nedr. No. 43. [Tungsten] Vol'fram. 1960. 61 p.  
(MIRA 14:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mi-  
neral'nogo syr'ya.

(Tungsten)

GINZBURG, A.I.; GOMZHEVSKAYA, S.A.; YEROPYEVA, Ye.A.; SIDORENKO, G.A.;  
MALYSHEV, I.I., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;  
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;  
KITUSHCHOV, N.A., red.; CHEPOSVITOV, Yu.L., red.; SIMANENKOV, I.V.,  
red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; NEMANOVA, G.F.,  
red.izd-va; BYKOVA, V.V., tekhn.red.

[Titanates, tantalates, and niobates] Titano-tantalo-niobaty.

Moskva. Gos. nauchno-tekhn.izd-vo lit-ry po geol.i okhrane nedr.

Part 1. 1960. 166 p. (Geologiya mestorozhdenii redkikh elementov,  
no.10). (MIRA 14:6)

(Titanates)

(Tantalates)

(Niobates)

STEPANOV, I.S., aspirant

Classification of cultivated slightly Podzolic sandy loam turf  
soils[with summary in English]. Izv. TSKhA no.4:204-213 '60.  
(MIRA 13:9)

(Soils--Classification)

SHEYNMANN, Yu.M.; APEL'TSIN, F.R.; NECHAYEVA, Ye.A.; GINZBURG, A.I., red.;  
MALYSHEV, I.I., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;  
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;  
KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V.,  
red.; SHCHERBINA, V.V., red.; EYGELES, M.A., red.; ROZHKOVA, L.G.,  
red.izd-va; BYKOVA, V.V., tekhn.red.

[Alkaline intrusions, their distribution, and the mineralization  
associated with them] Shchelochnye intruzii, ikh razmeshchenie i  
sviazannaia s nimi mineralizatsiia. Moskva, Gos.nauchno-tekhn.  
izd-vo lit-ry po geol.i okhrane nedr, 1961. 176 p. (Geologiya  
mestorozhdenii redkikh elementov, no.12/13). (MIRA 15:8)  
(Rocks, Igneous) (Ore deposits)

SHVEY, Igor' Vladimirovich; GINZBURG, A.I., glavnyy red.; POLYAKOV, M.V.,  
zamestitel' glavnogo red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M.,  
red.; RODIONOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A.,  
red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOSVITOV,  
Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.;  
EYGELES, M.A., red.; ENTIN, M.L., red.izd-va; BYKOVA, V.V., tekhn.red.

[Basic geochemical problems of rare earth elements and yttrium in  
endogenic processes] Osnovnye voprosy geokhimii redkozemel'nykh  
elementov i ittriia v endogennykh protsessakh. Moskva, Gos. nauchn.-  
tekhn. izd-vo lit-ry, po geologii i okhrane neдр, 1962. 105 p.  
(Geologiya mestorozhdenii redkikh elementov, no.15). (MIRA 15:11)  
(Rare earth metals) (Yttrium)

STEPANOV, I.S.

Asha series in the basin of the Chusovaya River. Dokl. AN  
SSSR 143 no.1:201-203 Mr '62. (MIRA 15:2)

1. Permskiy geologorazvedochnyy trest. Predstavleno akademikom  
D.V.Nalivkinym.  
(Chusovaya Valley—Geology, Stratigraphic)

STAVROV, O.D.; GINZBURG, A.I., glavnyy red.; POLYAKOV, M.V., zam. glav-  
nogo red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIO-  
NOV, G.G., red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.;  
FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L.,  
red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.; EYGELES,  
M.A., red.; FEDOTOVA, A.I., red. izd-va; IYERUSALIMSKAYA, Ye., tekhn.  
red.

[Basic characteristics of lithium, rubidium, cesium in the process  
of the formation granite intrusives and the pegmatites connected  
with them.] Osnovnye cherty geokhimii litia, rubidia, tsezia v  
protssesse stanovleniia granitnykh intruzivov i sviazannykh s nimi  
pegmatitov. Moskva, Gosgeoltekhizdat, 1963. 140 p. (Geologiya nes-  
torozhdenii redkikh elementov, no.21). (MIRA 17:2)

STEPANOV, I.S.

Nature of the most recent tectonic movements on the western slope  
of the Central Urals. Dokl. AN SSSR 152 no.5:1218-1221 0 '63.  
(MIRA 16:12)

1. Predstavleno akademikom I.P.Gerasimovym.



STEPANOV, I. S.

Origin of the orthogonal drainage network based on the example  
of the rivers of the western slope of the Central Ural Mountains.  
Izv.Vses.geog.ob-va 96 no. 2:130-133 Mr-Ap '64. (MIRA 17:5)

GORZHEVSKAYA, Susanna Aleksandrovna; SIDORENKO, Galina Aleksandrovna;  
GINZBURG, A.I., glavnyy red.; POLYAKOV, M.V., zamestitel' glavnogo  
red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV, G.G.,  
red.; STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P.,  
red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA,  
V.V., red.; EYGELES, M.A., red.

[Titano-tantalo-niobates. Part 2.] Titano-tantalo-niobaty.  
Moskva, Nedra. Pt.2. 1964. 115p. (Geologiya mestorozhdenii  
redkikh elementov, no.23) (MIRA 18:1)

STEPANOV, I.S.

Structure of the Basegi Range and the stratigraphic position  
of the Oalyanka series in the cross section of ancient formations  
in the western slope of the Central Urals. Biul. MDIP Otd. geol.  
40 no.4:58-60 J1-Ag '65. (MIRA 18:9)

BILOKH, A.M.; KOCHENOV, A.V.; GINZBURG, A.I., glavnyy red.; APEL'TSIN, F.R., red.;  
GRIGOR'YEV, V.M., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;  
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;  
CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V.,  
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[Impurity elements in bone phosphate of fossil fishes.] Elementy-  
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AIEL'TSIN, P.R., zamestitel' glavnogo redaktora; CHERNYSHEVA,  
L.V., red.; BEUS, A.A., red.; GREKULOVA, L.A., red.;  
GRIGOR'YEV, V.M., red.; ZABOLOTNAYA, N.P., red.; MATIAS, V.V.,  
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S/564/57/000/000/015/029  
D258/D307

AUTHORS: Stepanov, I. V., and Feofilov, P. P.  
TITLE: Artificial fluorite  
SOURCE: Rost kristallov; doklady na Pervom soveshchanii  
po rostu kristallov, 1956 g. Moscow, Izd-vo  
AN SSSR, 1957, 229-241

TEXT: A brief review is first given of the advantages and applications of fluorite in optics, and of the necessary conditions during the production of artificial crystals. In the present work the author used a variation of the method proposed I. V. Obreimov and L. V. Shubnikov and perfected by P. W. Bridgman (Proc. Am. Acad. Sci., 60, 306 (1925)). Combination of high temperatures and low pressures was achieved by (1) reduction of the space to be evacuated, (2) elimination of gas-retaining materials, or of those whose vapor pressure exceeded  $10^{-5}$  torr at working temperatures, from the evacuated space,

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Artificial fluorite...

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D258/D307

(3) water-cooling of all parts which did not have to be maintained at high temperatures. The crystals were grown in 0.15 - 0.2 mm thick Mo crucibles. The apparatus is illustrated and described. The starting materials used were technical fluorite (after removal of impurities) and high-purity artificial  $\text{CaF}_2$ . The process itself consisted of charging the crucible with  $\text{CaF}_2$  containing 0.25% by weight of  $\text{PbF}_2$  (to convert any  $\text{CaO}$  back to  $\text{CaF}_2$ ) and slowly raising the temperature to the m.p. of the charge, keeping the pressure below  $10^{-3}$  torr. The crucible was then moved into a cooler part of the furnace; monocrystals were obtained only when this transfer was slow. Crystals were then annealed at  $1100^\circ\text{C}$ , cooling very slowly to room temperature. More than 1000 specimens were obtained by this method, 40 mm in dia. (200 g) or 60 mm in dia. (~800 g). Physical properties of artificial and natural crystals are compared. In the short-wave range, the spectral transmissivity began at 210  $\mu$  in artificial

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